

REMARKS

Claims 15-23 are pending in this application. Claims 1-14 have been cancelled without prejudice or disclaimer and Claims 15-23 have been added.

The added claims are supported in the specification as originally filed. See, e.g., from page 77, line 14 to page 78, line 2, and from page 80, line 20 to page 81, line 5 (Claim 15), page 27, lines 18-20 (Claim 16), and from page 25, line 27 to page 26, line 17, page 30, lines 10-14, and from page 36, line 13 to page 37, line 7 (Claim 17). See also, e.g., from page 25, line 27 to page 26, line 17, and from page 36, line 13 to page 37, line 7 (Claim 18), Figs. 1 and 4, and page 77, lines 22-24 (Claim 19), page 21, lines 5-10 (Claim 20), and page 75, lines 22-24 and page 82, lines 7-10 (Claim 21).

Applicants respectfully request favorable consideration and early passage to issue of the pending claims.

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Applicants have included as part of the art cited on Form PTO-1449, the art of record in the parent application. Pursuant to MPEP § 609, no new copies of such art are provided. However, if the Examiner would like a copy of any of the references cited on form PTO-1449, Applicants will gladly do so upon request.

The Examiner's attention is also directed to the following U.S. application:

<u>APPLICATION NO.</u>	<u>FILING DATE</u>	<u>GROUP ART UNIT</u>
09/443,308	11/19/99	2879

A copy of the cited Application is enclosed.

Listed U.S. Patent No. 6,626,719 issued from Application No. 08/781,206, which is of record in parent U.S. Patent Application 09/506,289. One copy of U.S. Patent 6,626,719 is enclosed.

Listed U.S. Patent No. 6,288,494 issued from U.S. Patent Application No. 09/513,842, which is of record in parent U.S. Patent Application 09/506,289. One copy of U.S. Patent 6,288,494 is enclosed.

Listed U.S. Patent No. 6,472,814 issued from U.S. Patent Application No. 09/191,342, which is of record in parent U.S. Patent Application 09/506,289. One copy of U.S. Patent 6,472,814 is enclosed.

Listed U.S. Patent No. 6,184,610 issued from U.S. Patent Application No. 08/690,964, which is of record in parent U.S. Patent Application 09/506,289. One copy of U.S. Patent 6,184,610 is enclosed.

Listed U.S. Patent No. 6,246,168 issued from U.S. Patent Application No. 08/508,931, which is of record in parent U.S. Patent Application 09/506,289. One copy of U.S. Patent 6,246,168 is enclosed.

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 03500.014384.1		APPLICATION NO. NYA	
				APPLICANT MASAFUMI KYOGAKU ET AL.			
				FILING DATE FILED HEREWITH		GROUP 2818	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,472,814	10/02	Yamanobe	313	495	
		6,184,610	2/01	Shibata et al.	313	309	
		6,246,168	6/01	Kishi et al.	313	495	
		6,626,719	9/03	Ono et al.	445	24	
		6,288,494	9/01	Tuskamoto et al.	315	169.1	
		5,645,462	7/97	Banno et al.	445	51	
		6,435,928 B1	8/02	Tsukamoto	445	24	
		6,221,426	4/01	Yamanobe	427	77	
		6,231,413	9/99	Tsukamoto	445	24	
		6,169,356	1/01	Ohnishi et al.	313	495	
		5,541,752	8/94	Taniguchi et al.	359	78	
		5,805,129	12/95	Inaba et al.	345	97	
		6,008,502	3/97	Deguchi et al.	257	10	
		4,904,895	2/27/90	Tsukamoto et al.	313	336	
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		64-19657	1/89	Japan			Abstract
		8-273523	10/96	Japan			Abstract
		0 660 357 A1	6/95	EPO			
		0 788 130 A2	8/97	EPO			
		7-192614	7/95	Japan			Abstract
		7-235255	9/95	Japan			Abstract
		8-007749	1/96	Japan			Abstract
		9-237571	9/97	Japan			Abstract
		0 536 731	4/93	EPO			
		0 299 461	1/89	EPO			
		0 658 924	6/95	EPO			
		0 693 766	1/96	EPO			
		0 696 813	2/96	EPO			
		0 701 265	3/96	EPO			
		0 715 329	6/96	EPO			
		0 736 890	10/96	EPO			
		0 736 892	10/96	EPO			
		0 740 342	10/96	EPO			
		0 757 371	2/97	EPO			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER				DATE CONSIDERED			

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		1-309242	12/89	Japan			Translation
		9-102267	4/15	Japan			Abstract
		97-71896	11/97	Korea			Abstract
		9-326241	12/97	Japan			Abstract
		0 309 242	3/89	EPO			
		8-264112	10/96	Japan			Abstract
		8-162015	6/96	Japan			Abstract
		9-27268	1/97	Japan			Abstract
		9-27272	1/97	Japan			Abstract
		10-3848	1/98	Japan			Abstract
		10-3847	1/98	Japan			Abstract
		10-3853	1/98	Japan			Abstract
		10-3854	1/98	Japan			Abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Patent Abstracts of Japan, Vol. 14, No. 108 (1990)					
		W.P. Dyke et al., "Field Emission," Advances in Electronics and Electron Physics, Vol. VIII, 1956, pp. 89-185.					
		H. Araki, et al., "Electroforming and Electron Emission of Carbon Thin Films," Journal of the Vacuum Soc. of Japan, Vol. 2-6, No. 1, 1983, pp. 22-29 (with English Abstract on p. 22).					
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		G. Dittmer, "Electrical Conduction and Electron Emission of Discontinuous Thin Films," Thin Solid Films, 9, 1972 pp. 317-328.					
		M. Elinson, et al. "The Emission of Hot Electrons and the Field Emissions of Electrons From Tin Oxide," Radio Engineering and Electronic Physics, July 1965, pp. 1290-1298.					
		C.A. Mead, "Operation of Tunnel-Emission Devices," J. Applied Physics, Vol. 32, No. 4, April 1961, pp. 646-652.					
		C.A. Spindt et al., "Physical Properties of Thin Films of Thin-film Field Emission Cathodes with Molybdenum Cases," J. Applied Physics, Vol. 47, No. 12, Dec. 1976, pp. 5248-5263.					
		M. Hartwell et al., "Strong Electron Emission From Patterned Tin-Indium Oxide Films," IEDM, 1975, pp. 519-521.					
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